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Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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See the following pages for more information!



Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Anti-Morphine [3K11] Bulk Size Ab03758-10.3-BT

This antibody was created using our proprietary Fc Silent™ engineered Fc domain containing key point mutations that abrogate binding to Fc gamma receptors.

This is a reformatted human IgG1 Fc Silent Fc Silent™ antibody, based on the original human IgG1 format, created for improved compatibility with existing reagents, assays and techniques.

Isotype and Format: Human IgG1, Fc Silent™, Kappa

Clone Number: 3K11

Alternative Name(s) of Target: Morphinium; opioids; ChEBI: 17303

UniProt Accession Number of Target Protein:

Published Application(s): ELISA

Published Species Reactivity: Species independent

Immunogen: The original antibody was generated by immunizing Balb/c mice with two morphine derivative 3-O-carboxymethyl ester, conjugated to BSA.

Specificity: This antibody binds morphine and also recognizes the 3-O-carboxymethyl ester of morphine. Morphine is a strong opiate that is found naturally in opium, a dark brown resin in poppies (*Papaver somniferum*). It is considered the classic opioid analgesic, most commonly used in pain management, morphine provides major relief to patients afflicted with pain. It is a non-synthetic narcotic with a high potential for abuse.

Application Notes: This antibody binds morphine with a binding affinity of $K_d = 61\text{nM}$. The binding characterization of this antibody to the 3-O-carboxymethyl ester of morphine was done using ELISA (PMID: 32219918).

Antibody First Published in: Trofimov et al. Epitope specificity of two anti-morphine monoclonal antibodies: In vitro and in silico studies. *J Mol Recognit.* 2020 Sep;33(9):e2846. [PMID:32219918](#)

Note on publication: This paper describes the characterization of two antibodies generated against morphine.

Product Form

Size: 1 mg Purified antibody in bulk size.

Purification: Protein A affinity purified

Supplied In:

PBS only.

Storage Recommendation: Store at 4°C for up to 3 months. Note, this antibody is provided without added preservatives, it is therefore recommended this antibody be handled under sterile conditions. For longer storage, aliquot and store at -20°C.

Concentration: 1 mg/ml.

Important note - This product is for research use only. It is not intended for use in therapeutic or diagnostic procedures for humans or animals.